The Post Office Electrical Engineers' Journal

INDEX

VOLUME 61

(April 1968–January 1969)

PAGE NO.

A

Aerial, Measurements on Goonhilly 85 ft Diameter (Part 1) 171
Aerial No. 1, Re-equipping Goonhilly 254
ALLAN, A. F. G. Trunk and Junction Cable Pressurization: A Note on Progress 238
Amplifier and Loudspeaker, No. 5, A Telephone 'Waiting-Amplifier'— 228
Associate Section Notes 72, 140, 213, 282
Automatic Controls for Central Heating, An Introduction to 154
AXE, G. A., The Effects of the Earth's Magnetism on Submarine Cables 37

B

BXB 1121 Crossbar Equipment, Transit Switching Centres Using (Part 2) 20
BAKER, D. (Appointment as Controller) 67
BALCOMBE, J. (Appointment as Controller of Factories) .. 65
BALLS, G. C. J., and MARSH, H. A Data Transmission Network for the Ministry of Social Security 224
BANKS, A. Motor-Driven Cleaner for 2,000-Type and 4,000-Type Selector 56
BANNER, J. A., and PRIESTLEY, W. D. Guarding of Roadworks 240
BARKER, H. (Appointment as Director) 65
BENNETT, G. H., and BOLTON, L. J. Design Features and Application of the British Post Office 24-Channel Pulse-Code Modulation System 95
BEST, F. L., and MARTIN, R. W. Ploughs for Laying Duct and Cable 159
Bideford "Long Bridge" Flood Damage to 71
BIGG, R. W. The Quest for a Telegraph Relay of Greater Reliability 196
BISSELL, D. R. Ladder Safety Devices 230
BLAKEY, H., and GREEN, B. A. A Motor-Driven Cleaner for 2,000-Type and 4,000-Type Selector Banks 56
BLANCHARD, D. T., and RYAN, W. A. Trunk Transit Network: Incoming Register-Translators for Director and Non-Director Areas 176
BOLTON, L. J., and BENNETT, G. H. Design Features and Application of the British Post Office 24-Channel Pulse-Code Modulation System 95
Brearley Receiving Station, The New 75
BREARY, D. (Appointment as Staff Engineer) 133
BRONSDON, E. G. The New Brearley Receiving Station .. 75
BROWNLOW, P. E. (Appointment as Chief Motor Transport Officer) 68

C

Cable, Drop-Wire, No. 4 19
Cable-Drum Trailers, Two New 222
Cable-Pair Appropriation Records, Local-Line Plant: Rationalization of the 28
Cable, Ploughs for Laying Duct and 159
Cable Pressurization: A Note on Progress, Trunk and Junction 238
Cable Ships, Development of Bow and Stern Whiskers for 90
Cables, A Resin Encapsulated Termination for Coaxial-Pair 53
Cables, The Effects of the Earth's Magnetism on Submarine 37
Call-Sender for Testing New Telephone Exchange Installations, An Electronic Automatic 165
Cardiff, Pipe Jacking at Roadworks in 137
Cartridge-Type Fixing Gun, A New 163
Central Heating, An Introduction to Automatic Controls for 154
Channel Islands for the Independent Television Authority, Television Links to the 48
CHAPMAN, K. J., and HUGHES, C. J. A Field Trial of an Experimental Pulse-Code Modulation Tandem Exchange 186
CHARLTON, E. W. Two New Cable-Drum Trailers 222
Cleaner for 2,000-Type and 4,000-Type Selector Banks, A Motor-Driven 56
CLINCH, C. E. E. (Appointment as Staff Engineer) .. 67
Coaxial-Pair Cables, A Resin-Encapsulated Termination for 53
COLEMAN, W. L. A. (Appointment as Director) 67
Communication-Satellite Earth-Station Planning and Operation, United Kingdom Seminar on 102
Computerized Production of Exchange Performance Data 279
Computers, Multi-Access 215
Contact Opening and Closing Phenomena and Quenching Techniques, Electrical Contacts in Telephone Exchanges: (Part 1) 263
COOMBS, A. W. M. (Appointment as Senior Principal Scientific Officer) 133
COPPING, J. P. (Appointment as Staff Engineer) 67
CORKE, R. L., HARE, A. G., MELIA, A. J., SEARLS, A. W., and SCARBROUGH, R. J. D. Semiconductor Device Developments: Production and Testing of Highly-Reliable 4A-Type Transistors 7
Cover for Carriageway Jointing Chambers, A Double-Triangular Type Frame and 82
CREIGHTON, J. L., and WASE, A. E. N. The New Very-Low-Frequency Transmitter at Rugby Radio Station .. 232
CROOKS, K. R., and HOLMES, A. C. Programmed Learning —A New Design for Training (Part 2) 15
CROISDALE, A. C. (Appointment as Staff Engineer).. .. 135
Crossbar Equipment, Transit Switching Centres Using BXB 1121 (Part 2).. 20
CROUDACE, V. B., and JONES, D. C. A New Lamp Signalling Cord P.M.B.X.—Switchboard, P.M.B.X. No. 4/1A .. 84
CUMMING, W. S., and KEARSLEY-BROWN, R. H. G. Trunk Transit Network: Access from Controlling Register-Translators at Group Switching Centres 120

D

Data Transmission Network for the Ministry of Social Security, A 224
DAVIS, E. (Appointment as Controller) 66
Design Features and Application of the British Post Office 24-Channel Pulse-Code Modulation System 95
Design, Telephone-Exchange Equipment Planning and .. 148
Development of Bow and Stern Whiskers for Cable Ships 90
Dialling-in to P.A.B.X. Extensions, Direct 245
Direct Dialling-in to P.A.B.X. Extensions 245
Director and Non-Director Areas, Trunk Transit Network: Incoming Register-Translators for 176

PAGE NO.

Distribution Network at Washington New Town, Post Office Wideband 1
Diversions for Road Works in North-West Scotland .. 282
Double-Triangular Type Frame and Cover for Carriageway Jointing Chambers, A 82
Drop-Wire, No. 4, Cable 19
Duct and Cable, Ploughs for Laying 159

E

Earth-Station Planning and Operation, United Kingdom Seminar on Communication-Satellite 102
EDWARDS, P. J. (Appointment as Staff Engineer) 68
Effects of the Earth's Magnetism on Submarine Cables, The 37
Electrical Contacts in Telephone Exchanges: Contact Opening and Closing Phenomena and Quenching Techniques. Part 1—Contact Switching Phenomena and Quenching Techniques 263
Electronic Automatic Call Sender for Testing New Telephone Exchange Installations, An 165
Electronic Telephone Exchanges: Speech-Path Control in Reed-Electronic Exchange 103
ELKINS, N. A. Television Links to the Channel Islands for the Independent Television Authority 48
ELKINS, N. A. The Reliability of Microwave Radio-Relay Systems 143
ELLIOTT, J. L. C. Group Automatic Gain-Control Equipment 3
Empress, London, The Experimental Pulse-Code Modulation Exchange Opens at 195
ESSEEN, D. O., and HEWSTONE, H. D. Local-Line Plant: Rationalization of the Cable-Pair Appropriation Records 28
Exchange, A Field Trial of an Experimental Pulse-Code Modulation Tandem 186
Exchange Equipment Planning and Design, Telephone- .. 148
Exchange Installations, An Electronic Automatic Call Sender for Testing New Telephone 165
Exchange Opens at Empress, London, The Experimental Pulse-Code Modulation 195
Exchanges: Contact Opening and Closing Phenomena and Quenching Techniques, Electrical Contacts in Telephone (Part 1) 263
Exchanges: Speech-Path Control in Reed-Electronic Exchanges, Electronic Telephone 103
Experimental Pulse-Code Modulation Exchange Opens at Empress, London, The 195
Experimental Use of 174-Type Coaxial Cable as a Subaqueous Cable between Grimsby and Hull 280

F

Fenny Bridge's Storm Damage, Exeter 281
Field Trial of an Experimental Pulse-Code Modulation Tandem Exchange, A 186
Flood Damage to Bideford "Long Bridge" 71
FORSTER, A. E. T. (Appointment as Staff Engineer) .. 68
4A-Type Transistors, Semiconductor Device Developments: Production and Testing of Highly-Reliable 7
Frame and Cover for Carriageway Jointing Chambers, A Double-Triangular Type 82
FRY, R. A., and MUNDAY, S. The New International Telephone Switching and Transmission Plan.. 199

G

Gain-Control Equipment, Group Automatic 3
GEE, J. H., and YEO, B. F. Maintenance of the Subscriber Trunk-Dialling Network 32
Goonhilly Aerial No. 1, Re-equipping 254
Goonhilly 85 ft. Diameter Aerial, Measurements on (Part1) 171
GORE, J. S. A Telephone 'Waiting-Amplifier'—Amplifier and Loudspeaker, No. 5 228
GORMAN, F. W., and MCLACHLAN, A. S. New Radio-Interference Equipment Vehicles 58
GRANGER, S. H. Post Office Wideband Distribution Network at Washington New Town 1
GREEN, B. A., and BLAKEY, H. A Motor-Driven Cleaner for 2,000-Type and 4,000-Type Selector Banks 56
Group Automatic Gain Control Equipment 3
Group Switching Centres, Trunk Transit Network: Access from Controlling Register-Translators at 120
Guarding of Roadworks 240
Gun, A New Cartridge-Type Fixing 163

H

HALEY, G., and KOLANOWSKI, J. Development of Bow and Stern Whiskers for Cable Ships 90
HALIBURTON, F. C. (Appointment as Telephone Controller)
HANNANT, K. A. (Appointment as Staff Engineer) 68

PAGE NO.

HARDING, T. C. (Appointment as Staff Engineer) 68
HARE, A. G., MELIA, A. J., SEARLS, A. W., SCARBROUGH, R. J. D., and CORKE, R. L. Semiconductor Device Developments: Production and Testing of Highly-Reliable 4A-Type Transistors 7
HARRIS, L. R. F. (Appointment as Deputy Director of Engineering) 277
HAWORTH, J. E. The School-Television Distribution Network 250
HAYWOOD, E. E. Renewing the Traction Ropes on a Lift at the Post Office Tower, London 256
Heating, An Introduction to Automatic Controls for Central 154
HEWSTONE, H. D., and ESSEEN, D. O. Local-Line Plant: Rationalization of the Cable-Pair Appropriation Records 28
HOLMES, A. C., and CROOKS, K. R. Programmed Learning —A New Design for Training (Part 2) 15
HORSFIELD, B. R. (Appointment as Staff Engineer) 68
HOUGH, F. A. (Appointment as Deputy Director) 66
HOWE, R. C. Programmed Learning—A Programmed Initial-Installation Training Course 259
HUGHES, C. J., and CHAPMAN, K. J. A Field Trial of an Experimental Pulse-Code Modulation Tandem Exchange 186

I

Independent Television Authority, Television Links to the Channel Islands for the 48
Installation Plans for Pulse-Code Modulation Systems up to December, 1969 44
Institution of Post Office Electrical Engineers .. 135, 210, 285
Interference Equipment Vehicles, New Radio- 58
Intermediate-Frequency Switching Systems for Microwave Radio-Relay Links 110
International Telephone Switching and Transmission Plan, The New 199
Introduction to Automatic Controls for Central Heating, An 154

J

JEMMESON, A. E. (Appointment as Deputy Director) .. 66
Jointing Chambers, A Double-Triangular Type Frame and Cover for Carriageway 82
JONES, D. C., and CROUDACE, V. B. A New Lamp Signalling Cord P.M.B.X.—Switchboard, P.M.B.X. No. 4/1A .. 84

K

KEARSLEY BROWN, R. H. G., and CUMMING, W. S. Trunk Transit Network: Access from Controlling Register-Translators at Group Switching Centres 120
KOLANOWSKI, J., and HALEY, G. Development of Bow and Stern Whiskers for Cable Ships 90

L

Ladder Safety Devices 230
Lamp Signalling Cord P.M.B.X.—Switchboard, P.M.B.X. No. 4/1A, A New 84
Lancaster Area, Storm Damage in 137
LANG, W. N. (Appointment as Service Controller) 66
Lavenham, Telephone Distribution in a Mediaeval Town— 70
LAVER, F. J. M. (Appointment as Director) 132
LAWRENCE, J. A. (Appointment as Deputy Director) .. 65
Leeds and Its Trunk Circuits 281
Lift at the Post Office Tower, London, Renewing the Traction Ropes on a 256
Local-Line Plant: Rationalization of the Cable-Pair Appropriation Records 28
Long-Distance Transmission by Circular Waveguide .. 27
Long Way Round in Scotland, A 137

M

MCGRATH, H. T. (Appointment as Staff Engineer) 132
MACKIE, R. H. An Electronic Automatic Call Sender for Testing New Telephone Exchange Installations.. .. 165
MCLACHLAN, A. S., and GORMAN, F. W. New Radio-Interference Equipment Vehicles 58
MCLUSKY, R. F., WALKER, N., and STALLWORTHY, F. A. Transit Switching Centres Using BXB 1121 Crossbar Equipment (Part 2) 20
MADDISON, W. H. (Appointment as Assistant Secretary) .. 66
Magnetism on Submarine Cables, The Effects of the Earth's 37
MARSH, H., and BALLS, G. C. J. A Data Transmission Network for the Ministry of Social Security 224
MARTIN-ROYLE, R. D. Intermediate-Frequency Switching Systems for Microwave Radio-Relay Links 110

PAGE NO.

MARTIN, R. W., and BEST, F. L. Ploughs for Laying Duct and Cable 159
MATTHEWS, R. E., and THORNTON, T. C. A Double-Triangular Type Frame and Cover for Carriageway Jointing Chambers 82
Measurements on Goonhilly 85 ft. Diameter Aerial Part 1—Physical Measurements of the Paraboloid .. 171
MELIA, A. J., SEARLS, A. W., SCARBROUGH, R. J. D., and CORKE, R. L. Semiconductor Device Developments: Production and Testing of Highly-Reliable 4A-Type Transistors 7
MELLER, V. C. Re-equipping Goonhilly Aerial No. 1 .. 254
Microwave Radio-Relay Links, Intermediate-Frequency Switching Systems for 110
Microwave Radio-Relay Systems, The Reliability of .. 143
MITCHELL, M. (Appointment as Staff Engineer) 134
Modulation Exchange Opens at Empress, London, The Experimental Pulse-Code 195
Modulation System, Design Features and Application of the British Post Office 24-Channel Pulse-Code 95
Modulation Systems up to December 1969, Installation Plans for Pulse-Code 44
Modulation Tandem Exchange, A Field Trial of an Experimental Pulse-Code 186
Motor-Driven Cleaner for 2,000-Type and 4,000-Type Selector Banks, A 56
Multi-Access Computers 215
MUNDAY, S., and FRY, R. A. The New International Telephone Switching and Transmission Plan 199

N

NESS, A. An Introduction to Automatic Controls for Central Heating 154
Network for the Ministry of Social Security, A Data Transmission 224
Network, The Schools-Television Distribution 250
New Brearley Receiving Station, The 75
New Cable-Drum Trailers, Two 222
New Cartridge-Type Fixing Gun, A 163
New International Telephone Switching and Transmission Plan, The 199
New Lamp Signalling Cord P.M.B.X.—Switchboard, P.M.B.X. No. 4/1A, A 84
New Radio-Interference Equipment Vehicles 58
New Very-Low-Frequency Transmitter at Rugby Radio Station, The 232
NICHOLSON, T. (Appointment as Staff Engineer) 277
Non-Director Areas, Trunk Transit Network: Incoming Register-Translators for Director and 176
Notes and Comments 64, 132, 209, 277

O

Opening of the First Electronic Automatic Telephone Exchange in Scotland 281

P

P.A.B.X. Extensions Direct Dialling-in to 245
P.C.M. Route Installed by P.O. Labour, First 280
P.M.B.X.—Switchboard, P.M.B.X. No. 4/1A, A New Lamp Signalling Cord 84
PARTINGTON, E. V. (Appointment as Staff Engineer) .. 67
PEARSON, H. E. Measurements on Goonhilly 85 ft. Diameter Aerial (Part 1) 171
PIGGOTT, J. (Appointment as Deputy Director) 65
Pipe-Jacking at Roadworks in Cardiff 137
Planning and Design, Telephone-Exchange Equipment .. 148
Ploughs for Laying Duct and Cable 159
Post Office Research Station, Site for the New 27
Post Office Wideband Distribution Network at Washington New Town 1
Prefabrication Applied to U.A.X. 13 Installation 283
Press Notices 207, 273
Pressurization: A Note on Progress, Trunk and Junction Cable 238
PRIESTLEY, W. D., and BANNER, J. A. Guarding of Roadworks 240
Programmed Learning—A Programmed Initial-Installation Training Course 259
Programmed Learning—A New Design for Training .. Part 2—Past, Present and Future Uses in Regional Engineering Training 15
Pulse-Code Modulation Exchange Opens at Empress, London, The Experimental 195
Pulse-Code Modulation System, Design Features and Application of the British Post Office 24-Channel 95

PAGE NO.

Pulse-Code Modulation Systems up to December 1969, Installation Plans for 44
Pulse-Code Modulation Tandem Exchange, A Field Trial of an Experimental 186

Q

Quenching Techniques, Electrical Contacts in Telephone Exchanges: Contact Opening and Closing Phenomena and (Part 1) 263
Quest for a Telegraph Relay of Greater Reliability, The .. 196

R

Radio-Interference Equipment Vehicles, New 58
Radio-Relay Links, Intermediate-Frequency Switching Systems for Microwave 110
Radio-Relay Systems, The Reliability of Microwave .. 143
Radio Station, The New Very-Low-Frequency Transmitter at Rugby 232
Radio-Telegraph Circuits, Telegraph Character-Storage Devices for Telex Services Routed over 119
Receiving Station, The New Brearley 75
Records, Local-Line Plant: Rationalization of the Cable-Pair Appropriation 28
Reed-Electronic Exchanges, Electronic Telephone Exchanges: Speech Path Control in 103
Re-equipping Goonhilly Aerial No. 1 254
REES, T. J. (Appointment as Deputy Director) 65
Regional Notes 70, 137, 212, 279
Register-Translators at Group Switching Centres, Trunk Transit Network: Access from Controlling 120
Register-Translators for Director and Non-Director Areas, Trunk Transit Network: Incoming 176
Relay of Greater Reliability, The Quest for a Telegraph .. 196
Reliability of Microwave Radio-Relay Systems, The .. 143
Reliability, The Quest for a Telegraph Relay of Greater .. 196
Renewing the Traction Ropes on a Lift at the Post Office Tower, London 256
Research Station, Site for the New Post Office 27
Resin Encapsulated Termination for Coaxial-Pair Cables, A 53
REVELL, A. J. (Appointment as Director) 66
RIGBY, D. F., and TIPPLER, J. Electronic Telephone Exchanges: Speech-Path Control in Reed-Electronic Exchanges 103
Roadworks, Guarding of 240
Roadworks in Cardiff, Pipe-Jacking at 137
ROCHE, D. J. Multi-Access Computers 215
Rugby Radio Station, The New Very-Low-Frequency Transmitter at 232
RUMP, M. R. G. A New Cartridge-Type Fixing Gun .. 163
RYAN W. A., and BLANCHARD, D. T. Trunk Transit Network: Incoming Register-Translators for Director and Non-Director Areas 176
RYMER, N. B. (Appointment as Staff Engineer) 68

S

Safety Devices, Ladder 230
Satellite Earth-Station Planning and Operation, United Kingdom Seminar on Communication— 102
SCARBROUGH, R. J. D., CORKE, R. L., HARE, A. G., MELIA, A. J., and SEARLS, A. W. Semiconductor Device Developments: Production and Testing of Highly-Reliable 4A-Type Transistors 7
Schools-Television Distribution Network, The 250
Scole Exchange—Isolation by Flooding 279
Scotland, A Long Way Round in 137
Scotland, Diversion for Road Works in North-West Scotland 282
Scotland—Storm Damage 70
SCOTT, W. L. Electrical Contacts in Telephone Exchanges: Contact Opening and Closing Phenomena and Quenching Techniques (Part 1) 263
SEARLS, A. W., SCARBROUGH, R. J. D., CORKE, R. L., HARE, A. G., and MELIA, A. J., Semiconductor Device Developments: Production and Testing of Highly-Reliable 4A-Type Transistors 7
Selector Banks, A Motor-Driven Cleaner for 2,000-Type and 4,000-Type 56
SELF, C. P. A Resin-Encapsulated Termination for Coaxial-Pair Cables 53
Semiconductor Device Developments: Production and Testing of Highly-Reliable 4A-Type Transistors 7
Ships, Development of Bow and Stern Whiskers for Cable 90
Site for the New Post Office Research Station 27
SOUTHERTON, T. H. (Appointment as Director) 65
Speech-Path Control in Reed-Electronic Exchanges, Electronic Telephone Exchanges: 103

PAGE NO.

STALLWORTHY, F. A., MCLUSKY, R. F., and WALKER, F. N. Transit Switching Centres Using BXB 1121 Crossbar Equipment (Part 2) 20
Storage Devices for Telex Services Routed over Radio-Telegraph Circuits, Telegraph Character- 119
Storm Damage in Lancaster Area 137
Storm Damage—Scotland 70
Submarine Cables, The Effects of the Earth's Magnetism on 37
Subscriber Trunk-Dialling Network, Maintenance of the .. 32
Switchboard, P.M.B.X. No. 4/1A, A New Lamp Signalling Cord P.M.B.X.— 84
Switching and Transmission Plan, The New International Telephone 199
Switching Centres Using BXB 1121 Crossbar Equipment, Transit (Part 2) 20
Switching Systems for Microwave Radio-Relay Links, Intermediate-Frequency 110

T

TAYLOR, S. C. Direct Dialling-in to P.A.B.X. Extensions .. 245
Telegraph Character-Storage Devices for Telex Services Routed over Radio-Telegraph Circuits 119
Telegraph Relay of Greater Reliability, The Quest for a .. 196
Telephone Distribution in a Mediaeval Town—Lavenham.. 70
Telephone Exchanges: Contact Opening and Closing Phenomena and Quenching Techniques, Electrical Contacts in (Part 1) 263
Telephone-Exchange Equipment Planning and Design .. 148
Telephone Exchange Installations, An Electronic Automatic Call Sender for Testing 165
Telephone Exchanges: Speech-Path Control in Reed-Electronic Exchanges, Electronic 103
Telephone Switching and Transmission Plan, The New International 199
Telephone 'Waiting-Amplifier'—Amplifier and Loud speaker, No. 5, A 228
Television Distribution Network, The Schools- 250
Television Links to the Channel Islands for the Independent Television Authority 48
Telex Services Routed over Radio-Telegraph Circuits, Telegraph Character-Storage Devices for 119
Termination for Coaxial-Pair Cables, A Resin Encapsulated 53
Testing New Telephone Exchange Installations, An Electronic Automatic Call Sender for.. 165
THOMAS, L. (Appointment as Staff Engineer) 133
THORNTON, T. C., and MATTHEWS, R. E. A Double-Triangular Type Frame and Cover for Carriageway Jointing Chambers 82
TIPPLER, J., and RIGBY, D. F. Electronic Telephone Exchanges: Speech-Path Control in Reed-Electronic Exchanges 103
Trailers, Two New Cable-Drum 222
Training Course, Programmed Learning—A Programmed Initial-Installation 259
Training, Programmed Learning—A New Design for .. 15
Transistors, Semiconductor Device Developments: Production and Testing of Highly-Reliable 4A-Type .. 7

PAGE NO.

Transit Network: Access from Controlling Register-Translators at Group Switching Centres, Trunk .. 120
Transit Network: Incoming Register-Translators for Director and Non-Director Areas, Trunk 176
Transit Switching Centres Using BXB1121 Crossbar Equipment
Part 2—Circuit Principles and Equipment Practice .. 20
Transmission by Circular Waveguide, Long-Distance .. 27
Transmission Network for the Ministry of Social Security, A Data 224
Transmission Plan, The New International Telephone Switching and 199
Transmitter at Rugby Radio Station, The New Very-Low-Frequency 232
Trunk and Junction Cable Pressurization: A Note on Progress 238
Trunk-Dialling Network, Maintenance of the Subscriber .. 32
Trunk Transit Network: Access from Controlling Register-Translators at Group Switching Centres 120
Trunk Transit Network: Incoming Register-Translators for Director and Non-Director Areas 176
24-Channel Pulse-Code Modulation System, Design Features and Application of the British Post Office 95
Two New Cable-Drum Trailers 222

U

U.A.X. 13 Installation, Prefabrication Applied to 283
United Kingdom Seminar on Communication-Satellite Earth-Station Planning and Operation 102

V

Vehicles, New Radio-Interference Equipment 58

W

WALKER, N., STALLWORTHY, F. A., and MCLUSKY, R. F. Transit Switching Centres Using BXB1121 Crossbar Equipment (Part 2) 20
WASE, A. E. N., and CREIGHTON, J. L. The New Very-Low-Frequency Transmitter at Rugby Radio Station .. 232
Washington New Town, Post Office Wideband Distribution Network at 1
Waveguide, Long-Distance Transmission by Circular .. 27
WEBBER, F. W. J. (Appointment as Assistant Secretary) .. 66
WHERRY, A. B. Telephone-Exchange Equipment Planning and Design 148
Whiskers for Cable Ships, Development of Bow and Stern 90
WHITE, I. G. (Appointment as Staff Engineer) 68
WHYTE, J. S. (Appointment as Deputy Director) 67
Wideband Distribution Network at Washington New Town, Post Office 1
WILLIAMS, F. E. (Appointment as Staff Engineer) 132

Y

YEO, B. F., and GEE, J. H. Maintenance of the Subscriber Trunk-Dialling Network 32
YOUNG, S. G. (Appointment as Staff Engineer) 134

Published by *The Post Office Electrical Engineers' Journal*, G.P.O., 2–12 Gresham Street, London, E.C.2, and printed in Great Britain by Unwin Brothers, Woking and London